

CLP Inorganic Modified Analyses

Inorganic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) affected	Fraction(s) affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
1	The modification required the laboratory to analyze wipe metal samples as specified in ILM04.1 for Pb only.	ILM04.1	Wipes	Total Metals		X				
2	The laboratory shall analyze Total Metals/Cyanide samples as specified in SOW ILM04.1. The modification required the laboratory to have the following analytes analyzed at the following CRQLs (or lower): Antimony (2.5 mg/kg), Chromium (0.2 mg/kg), Selenium (0.4 mg/kg), Thallium (0.4 mg/kg), and Vanadium (0.2 mg/kg). In addition, one additional analyte, Molybdenum, was analyzed at a CRQL of 1 mg/kg.	ILM04.1	Soil	Total Metals	X		X			
3	The modified analysis required the laboratory to analyze soil and water samples as specified in SOW ILM05.2 ICP-AES. An additional analyte, Strontium, was added as a target analyte with a CRQL of 20 ug/L for water samples and 4 mg/Kg for soil samples.	ILM05.2 ICP-AES	Soil and Water	Total Metals			X			

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4	The modification required the laboratory to analyze water samples for Ca, Fe, Mg, K, and Na, using the following CRQLs: Ca 0.2 mg/L; Mg 0.2 mg/L; K 0.5 mg/L; Na 0.5 mg/L. The laboratory also analyzed for an additional analyte Boron (B, CASRN 7440-42-8) with a CRQL of 7.0 µg/L. The laboratory was required to submit Method Detection Limits for these analytes that are less than one-half the CRQLs.	ILM05.2 ICP-AES	Water	Total Metals	X		X			
5	The modification required the laboratory to analyze soil and water samples as specified in SOW ILM05.2 ICP-AES with an additional analyte, Molybdenum, added as a target analyte. The CRQL for water samples was 20 ug/L and 5 mg/Kg for soil samples.	ILM05.2 ICP-AES	Soil and Water	Total Metals			X			
6	The modification required the laboratory to analyze samples as specified in ILM05.2 ICP-AES with an additional analyte, Sulfur, added to the target compound list with a CRQL of 1 mg/L.	ILM05.2 ICP-AES	Water	Total Metals			X			

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7	The modification required the laboratory to extract samples by method SW-846 1311 [Toxicity Characteristic Leaching Procedure (TCLP)] and analyze extracts for Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, and Silver by ICP-AES. For ICP-AES, digest extracts by preparation methods HW1 or MW1. Analyze extracts for Mercury by CVAA.	ILM05.2 ICP-AES	Soil	Total Metals and Mercury		X			X	
8	The modification required the laboratory to add Titanium [Ti, CASRN 7440-32-6] to the Target Analyte List for ICP-AES analysis (CRQL for Ti: 100 µg/L for water samples, 20 mg/kg for soil samples). Submit Method Detection Limits for water and soil preparation methods that are less than one-half the CRQL for the matrix.	ILM05.2 ICP-AES	Soil and Water	Total Metals			X			
9	The modification required the laboratory to analyze wipe samples as specified in ILM05.2 ICP-AES for Cadmium and Chromium only.	ILM05.2 ICP-AES	Wipe	Total Metals		X				
10	The modification required the laboratory to analyze aqueous metal samples as specified in ILM05.2 ICP-MS with four additional analytes: Lithium (CRQL of 5.0 ug/L); Molybdenum (CRQL of 2.0 ug/L); Strontium (CRQL of 2.0 ug/L); and Uranium (CRQL of 1.0 ug/L).	ILM05.2 ICP-MS	Water	Total Metals			X			

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11	The modification required the laboratory to analyze soil samples as specified in ILM05.2 ICP-MS with a lowered CRQL for Tl of 0.1 mg/kg.	ILM05.2 ICP-MS	Soil	Total Metals	X	X				
12	The modification required the lab to use fish preparation and blending techniques to process fish tissue for analytical analyses under ILM05.3 ICP-MS. The samples were analyzed for eight target analytes (As, Ba, Cd, Cr, Cu, Pb, Se, and Ag) and Hg. The laboratory was also required to determine and calculate lipid content as per normally established protocol.	ILM05.2 ICP-MS	Fish	Total Metals		X			X	
13	The modification required the laboratory to analyze aqueous samples for lead as specified in ILM05.2 ICP-MS but with a CRQL of 0.5 ug/L instead of 1.0 ug/L. An additional analyze, sodium, was added as a target compound with a CRQL of 200 ug/L.	ILM05.2 ICP-MS	Water	Total Metals	X		X			
14	The modification required the laboratory to analyze Total Metal/Cyanide samples as specified in SOW ILM05.2 under ICP-MS at or below the following CRQLs: Arsenic (0.045 ug/L), Barium (4 ug/L), Cadmium (0.6 ug/L), and Silver (0.8 ug/L). In addition, one additional analyte, Molybdenum, was analyzed at a CRQL of 180 ug/L.	ILM05.2 ICP-MS	Water	Total Metals	X		X			

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15	The laboratory must analyze soil and water metal samples as specified in ILM05.3 ICP-AES. The modification required the laboratory to have an acceptance window for target analytes for the ICSA analysis at +/- 10% of the true value for the analyte or CRQL, whichever is greater. The laboratory was required to adjust the instrument IECs to achieve these acceptance windows.	ILM05.3 ICP-AES	Soil and Water	Total Metals						X
16	The modification required the laboratory to analyze aqueous metal samples as specified in ILM05.3 ICP-AES with two additional analytes, Boron and Molybdenum, added as target analytes with CRQLs of 100 ug/L and 1 ug/L, respectively.	ILM05.3 ICP-AES	Water	Total Metals			X			
17	The modification required the laboratory to analyze aqueous metal samples as specified in ILM05.3 ICP-AES for TAL Metals and Mercury with lower CRQLs for Iron (30 ug/L) and Manganese (10 ug/L).	ILM05.3 ICP-AES	Water	Total Metals	X					